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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yasushi KADOWAKI
Masato KANEDA
Hiroshi UCHIDA



2. Name and address of receiving party(ies):

SHOWA DENKO K.K.
13-9, Shiba Daimon 1-chome
Minato-ku, Tokyo 105-8518
JAPAN

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Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: August 15, 2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
10/088,485

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$40.00

- ☐ Enclosed.
☒ Authorized to be charged to Deposit Account No. 19-4880.

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Sheldon I. Landsman

Sheldon I. Landsman

Reg. No. 25,430

December 23, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks

Box Assignment

Washington, D.C. 20231

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert
ASSIGNEE's
Name(s)
Address(es))

SHOWA DENKO K.K.

13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518, Japan

(Title of
Invention)

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
CATALYST FOR PRODUCING BOTH END-HYDROXYL GROUP-TERMINATED DIOLS, PROCESS FOR PRODUCING THE CATALYST, PROCESS FOR PRODUCING THE DIOLS BY USING THE CATALYST, AND BOTH END-HYDROXYL GROUP-TERMINATED DIOLS OBTAINED BY THE PROCESS

relating to International Patent Application PCT/JP 02 / 02797 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on March 22, 2002;

(b) filed on _____,
Serial No. _____;

(Sughrue Mion, PLLC,
Washington, D.C., U.S.A.

) is hereby authorized to insert in (b) the specified
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) <u>Yasushi Kadowaki</u> (SIGNATURE)	Yasushi Kadowaki (TYPE NAME)	August 15, 2002 (DATE)
2) <u>Masato Kaneda</u> (SIGNATURE)	Masato Kaneda (TYPE NAME)	August 15, 2002 (DATE)
3) <u>Hiroshi Uchida</u> (SIGNATURE)	Hiroshi Uchida (TYPE NAME)	August 15, 2002 (DATE)
4) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
5) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)